



## Abstract

A multi-band low noise amplifier comprising: a plurality of matching networks, a plurality of differential pairs, a pair of common base transistors, a pair of inductors, a pair of variable  
5 capacitors, a pair of inductors and a current generator. Bases of said plurality of differential pairs are coupled to outputs of said plurality of input matching networks. Emitters and collectors of said plurality of differential pairs are connected. Emitters of said common base transistor pairs are coupled to collectors of said  
10 plurality of differential pairs. The inductors are coupled to collectors of said common base transistor and a power supply. The capacitors and the inductors form a resonator pair. The inductors are coupled to emitters of said plurality of differential pairs. The inductor pairs are interlinked. The current generators are coupled to  
15 a coupling point of said inductors and to ground.